START

MEETING MINUTES

Subject: Expedited Response Action Weekly Interface

TO: Distribution BUILDING: 740 Stevens Center

FROM: W. L. Johnson CHAIRMAN: F. W. Gustafson 7/8/93

Dept-Operation-Component	Area	Shift	Meeting Dates	Number Attending
Environmental Engineering	RCHN	Day	June 28, 1993	10

Distribution

State of Washington Department of Ecology
J. Donnelly*
L. Goldstein
D. Goswami
R. L. Hibbard
J. Phillips*
D. D. Teel
N. Uziemblo
J. Yokel
T. Wooley*

U.S. Army Corps of Engineers
Walter Perro A3-61

U.S. Department of Energy
H. L. Chapman A5-19
J. K. Erickson A5-19
B. L. Foley A5-19
E. D. Goller A5-19
R. G. McLeod A5-19
D. E. Olson* A5-19
P. M. Pak* A5-19
R. K. Stewart A5-19

U.S. Environmental Protection Agency
P. R. Beaver B5-01
D. R. Einan
D. A. Faulk*
L. E. Gadbois
P. S. Innis*
D. R. Sherwood

Westinghouse Hanford Company
L. D. Arnold B2-35
M. V. Berriochoa B3-30
H. D. Downey H6-27
F. W. Gustafson* H6-04
W. F. Heine B3-63
G. C. Henckel H6-04
W. L. Johnson H6-04
J. K. Patterson H6-27
V. J. Rohay* H6-06
K. J. Swett* H6-06
T. M. Wintczak H6-27
EDMC H6-08
ERAG Route H6-04
GCH File

*Attendees

The weekly interface meetings on the expedited response actions (ERAs) was held to status the ERAs for the U.S. Department of Energy, Richland Operations Office, the U.S. Environmental Protection Agency, and the State of Washington Department of Ecology. The meeting was conducted in accordance with the attached agenda. The Riverland ERA Cleanup Sampling and Analysis Plan was approved allowing work to be initiated.

Attachments:
1. Agenda
2. Action Item List
3. Decisions, Agreements & Commitments
4. Expedited Response Action Weekly Reports, week ending 06/25/93

WEEKLY ERA INTERFACE AGENDA

SUBJECT: STATUS OF THE EXPEDITED RESPONSE ACTIONS

DATE: June 28, 1993

- GENERAL ISSUES
  - ERA Interface Action Item review
- INDIVIDUAL PROJECT STATUS
  - Riverland
    o Status of Action Memorandum (EPA)
  - Sodium Dichromate
    o Waste Disposal - No Action Yet
  - Pickling Acid Crib
    o Revising ERA Proposal
  - N-Springs
    o Draft Proposal Comments (Bob Scheck)
  - North Slope
    o Proposal to RL
  - 200-W Carbon Tetrachloride
    o Operations
  - 618-11
    o Draft EE/CA
- OTHER ISSUES
  - DOH
  - Indian Tribes
- SUMMARY OF ACTION ITEMS
- SIGN-OFF ON ANY DECISIONS, AGREEMENTS, OR COMMITMENTS

EXPEDITED RESPONSE ACTION INTERFACE MEETING

-ACTION ITEMS-
June 28, 1993

ORGANIZATION	ACTION ITEM
	No action items

EXPEDITED RESPONSE ACTION INTERFACE MEETING

-DECISIONS, AGREEMENTS, & COMMITMENTS-
June 28, 1993

DECISIONS:

AGREEMENTS: WHC-SD-EN-AP-138, Revision 0, "Riverland ERA Cleanup Sampling and Analysis Plan," is approved, work can be initiated.

COMMITMENTS:

RL Representative

6-28-93
EPA Representative

Ecology Representative

6/28/93
WHC Representative

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Weekly Report, Period Ending June 25, 1993
EXPEDITED RESPONSE ACTIONS
Technical and Management Contact - Wayne L. Johnson, 376-1721
Environmental Division

North Slope Expedited Response Action - A draft of the ERA Proposal has been completed. The document has been cleared and transmitted to RL for review. The document will be concurrently reviewed by the regulatory agencies and RL.

N-Springs Expedited Response Action - Dispositioning RL comments on the N-Springs ERA Proposal began. Based upon the comments, several issues concerning the scope of the document have surfaced. It is felt by the DOE-RL general support contractors that the evaluation of the alternatives was not of sufficient detail for selecting a preferred alternative. Treatability tests may be required to supply the level of detail the contractors want in the evaluation. It was explained to the support contractor that this level of detail is not normally contained in, and is beyond the scope, of an ERA Proposal. An additional meeting has been scheduled to attempt resolution of these issues.

618-11 Burial Ground Expedited Response Action - Work continues on the engineering Evaluation/Cost Analysis - integration of existing sections, development of potential action options, enhancement of characterization and monitoring sections, explanation of ERA requirements and basis for actions. Remaining work includes enhancement of option costs, potential impacts, and comparative evaluations.

White Bluffs Pickling Acid Crib Expedited Response Action - The draft ERA proposal has been issued for RL review. Public review is scheduled for early July.

Riverland Expedited Response Action - The public comment period for the ERA proposal closed on June 9, 1993, and the action memorandum was signed by EPA and Ecology on June 23, 1993. A field immunoassay test capable of detecting aldrin in soil at a level of 2 ppm has been developed. An empirical model for detection of Cr, Cu, Zn, As and Pb in soil has been developed for used on the military battery sites.

Sodium Dichromate Expedited Response Action - The final assessment report is being drafted. Solid Waste Engineering will disposition and arrange for the disposal of the remaining waste within the 90 day period allowed.

200 West Area Carbon Tetrachloride Expedited Response Action - Work is continuing on analysis of the overheated granular activated carbon canister incident. A corrective action strategy for restart is being conducted in parallel. Preparations for sampling of GAC is in progress. Drilling of vapor extraction wells is in progress.

1. CCl_4 ERA

   A. Vapor Extraction System (VES) Operations

Status of Operations: All three vapor extraction systems at the 200 West Area carbon tetrachloride ERA have been shut down as a result of the overheating of the primary granular activated carbon (GAC) canister at the 1500 cfm unit that occurred on 6/3/93. The systems have been locked and tagged to prevent extraction operations until the approval to proceed is received through the restart process. During the restart process the VES systems will be temporarily operated on ambient air to perform limited testing of the units and facilitate waste handling of the impacted GAC canister. During this time there will be no extraction of carbon tetrachloride from the wellfield.

Anticipated Restart: Anticipated restart for the 1000 cfm unit at 216-Z-1A Tile Field is 7/6/93; anticipated restart for the units at the 216-Z-9 Trench is 7/15/93. These dates are based on an assumption that there is approval for restart from Management, Safety, and any other pertinent individuals.

Restart Actions Completed: The complete restart strategy, with status as of 6/24/93, is attached. Major actions completed since 6/3/93 include:

- 24-hour initial Off Normal Occurrence Report submitted	6/4/93
- occurrence entered into Quality, Environmental, Safety Tracking (QUEST) database	6/15/93
- 10-day Off Normal Occurrence Report submitted	6/17/93
- Initial Background Summary Report completed includes Occurrence Report, Hanford Fire Dept. Report, General Specifications and Properties of GAC, Notes of Discussions with GAC vendors, Notes of discussions with Savannah River personnel	6/11/93
- Revised Background Summary Report completed	6/25/93
- Priority Planning Grid (PPG) risk value determined	6/12/93
- Unreviewed Safety Question evaluation completed	6/16/93
- Hazards evaluation completed	6/21/93
- Accident credibility determination completed	6/24/93
- Controls/corrective actions determined	6/25/93
- Heat Balance Scenario, Rev. 0, completed	6/18/93
- Heat Balance Scenario, Rev. 1, completed	6/25/93
- Summary Analysis Report, Rev. 0, completed	6/18/93
- Summary Analysis Report, Rev. 1, completed	6/25/93

Potential Corrective Actions: A thermocouple tree is being fabricated to measure temperatures within a GAC. An unused GAC was delivered to the 306 building on 6/16 for testing. Testing conducted using heated clean

air in the shop is scheduled for 6/28. Use of thermocouples to monitor the GAC temperatures is being considered as a corrective action.

Overheated GAC: The 1500 cfm vapor extraction unit is being operated using ambient air to blow air through the overheated/water-cooled GAC. Secondary and tertiary GACs are on line to capture any vapors. The GAC material must be dried before sampling. Samples are scheduled to be collected 6/28 for physical and chemical analyses. Representative samples of the GAC and the overheated GAC are being collected to determine whether this GAC can be regenerated under the existing contract with Envirotrol.

GAC Strategy: On 6/7 the ERA project team decided to ship all the GACs that are currently available in the "one-time" shipment to Envirotrol.

1500 cfm VES, Other activities: The Johnson Yokogawa maintenance and consulting RFP for the 1500 SCFM system is now in procurement. Central engineering has looked at the contract specification and has signed the purchase requisition. Currently the buyers must make comments and the sole source board must review the document.

The parts for power at the Z-9 crib are arriving on site. Currently we are waiting for the grey PVC conduit. The plant forces work review for the power installation has to go before the plant work review board. This will take place in two weeks. Installation of the power will begin by the 19th of July.

B. Well Field Design

Drilling of vapor extraction well 299-W15-219, northwest of 216-Z-9, began 4/26 and reached total depth 5/25. This well is currently being completed with two screened intervals. In addition, three stainless steel tubes were installed on the outside of the casing to allow subsurface pressures to be monitored at the surface using differential pressure transducers. On 6/18, cement grout was poured to provide one of the seals. Unfortunately, the top of the grout was one foot above the bottom of the temporary casing. The error was discovered 6/21 after the cement had hardened. Efforts are being made this week to break up cement inside casing to continue completion.

Drilling of vapor extraction well 299-W15-220 east of 216-Z-9 began 6/2. Perched water was encountered on 6/17 noon. A sample of this perched water was collected on 6/17. On 6/18 morning, the perched water level was measured at 106.1 ft below ground surface; the early Palouse/caliche contact had been encountered at 109 ft depth. The perched water zone was successfully sealed off (downsized using 10-inch and 8-inch casing, with bentonite seals). Drilling resumed 6/23; as of 6/24, the 8-inch casing was 115 ft

depth. Both EPA and Ecology were in agreement with the resumption of drilling. Volatile organic analysis of the perched water at PNL indicated 200 ppb carbon tetrachloride and 20 ppb chloroform. Approximately 1.6 ppb methylene chloride was observed, which is below the lower detection limit of 5 ppb.

Drilling of vapor extraction well 299-W18-252, midway between 216-Z-1A and 216-Z-12, began 5/3. As of 6/11, total depth (228 ft) had been reached and groundwater sampling had been completed. This well will be completed after well 299-W15-219 is completed.

The sonic drilling rig is expected to be at the carbon tetrachloride site by mid August. It will be used to drill two vertical vapor extraction wells near the 216-Z-9 trench and one angled vapor extraction well under the parking lot north of the 216-Z-9 trench. Data sheets have been prepared for these three wells.

Cone penetrometer (CPT) well installation began 5/3 in the vicinity of the three disposal sites by Applied Research Associates (ARA). The ARA field crew are gone 6/3 to 6/23. Additional extraction wells will be installed when they return at the end of the month.

A soil gas pressure monitoring station has been installed on the buried tubing well installed using the cone penetrometer north of 216-Z-9 (location CPT-9). Downhole pressure is continuously monitored at depths of 60, 70, and 91 ft.

Eight differential pressure gages have been installed on several soil pressure tubes in the CPT-4 field. Pressure data are recorded at 5 minute intervals at depths of 25, 59, 75, and 91 ft in CPT-4a, and 25, 50, 75, and 109 ft in CPT-4f. CPT-4a and CPT-4f are approximately 60 ft apart.

Data collection continues at the wellhead monitoring systems installed on wells 299-W18-6, W18-7, W18-248, 299-W18-249, W15-218 (combined contribution from both screened intervals), and W18-246 (one system on each of two screened intervals). The wells are instrumented to measure temperatures, windspeed, pressure, humidity, and air flow, and to record these measurements on a data logger. In addition, a chemical sensor (B&K 1301) is used to collect carbon tetrachloride concentration data at well 299-W15-218 fulltime while the vapor extraction systems are shut down.

Preparations are being made to ship one complete wellhead monitoring system to Joe Rossabi at Savannah River Site to enhance comparison of data being collected at the two sites.

Pre-operational testing of the HEPA vacuum characterization unit has concluded until the arrival of the 400 lb GAC canisters in early July. Pump flow graphs have been compiled from data gathered to date.

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